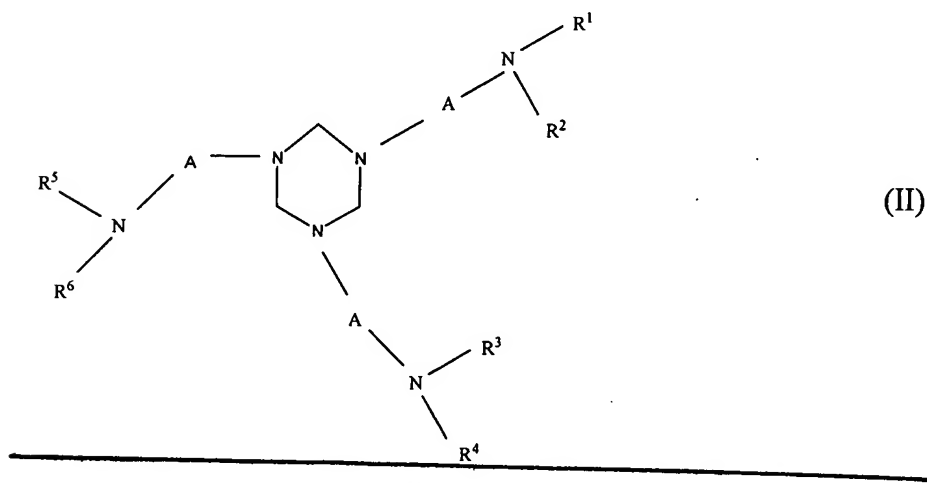


In the Claims:

1. (Currently amended) A process for scavenging hydrogen sulfide and/or mercaptans from a liquid or gaseous stream which comprises bringing the stream into contact with a scavenging effective amount of at least one scavenger selected from the group consisting of:

- (i.) a 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative of the formula:



wherein each A is independently selected from the formula $-(CHR^7)_x$ wherein x is from 1 to about 6 and each $R^1, R^2, R^3, R^4, R^5, R^6$ and R^7 is independently selected from $-H$ or a C_1-C_6 alkyl;

- (ii.) a nitrogen heterocyclic compound of the formula:



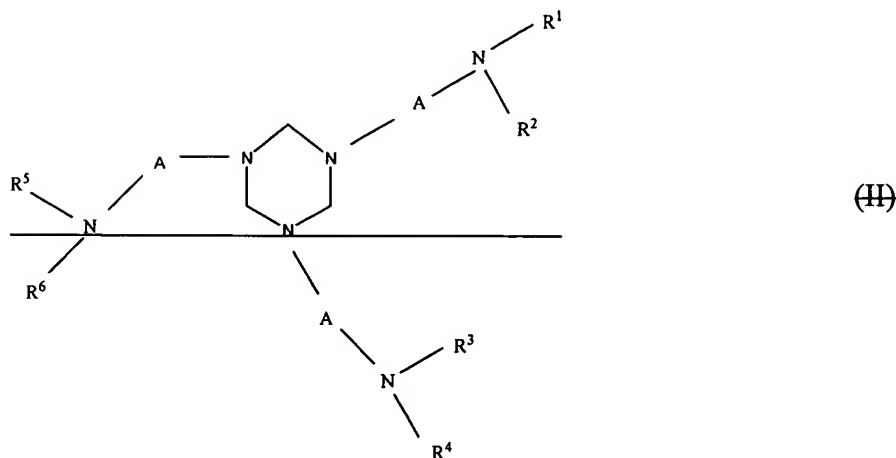
wherein Y is $-N$ or $-O$ and R^8 is an aminoalkyl group containing between 2 to 4 carbon atoms;

- (iii.) an amine oxide; and

- (iv.) an aliphatic or aromatic polyamine

and thereby scavenging hydrogen sulfide and/or mercaptan from the liquid or gaseous stream.

2. (Currently amended) The process of Claim 24 1, wherein the at least one scavenger ~~comprises a~~ is the 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative ~~of the~~ formula:



~~wherein each A is independently selected from the formula $(\text{CHR}^7)_x$ wherein x is from 1 to about 6 and each $\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^4, \text{R}^5, \text{R}^6$ and R^7 is independently selected from H or a $\text{C}_1\text{-C}_6$ alkyl.~~

3. (Original) The process of Claim 2, wherein the 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative is 1,3,5-tris[3-(dimethylamino)propyl] hexahydro-1,3,5-triazine, 1,3,5-tris[2-(dimethylamino)ethyl] hexahydro-1,3,5-triazine, 1,3,5-tris[3-(diethylamino)propyl] hexahydro-1,3,5-triazine or 1,3,5-tris[2-(diethylamino)ethyl] hexahydro-1,3,5-triazine.

4. (Previously presented) The process of Claim 25, wherein the at least one scavenger comprises the nitrogen heterocyclic compound wherein the aminoalkyl group is 2-aminoethyl or 2-hydroxyethyl.

5. (Previously presented) The process of Claim 1, wherein the at least one scavenger comprises morpholine bottoms.

6. (Currently amended) The process of Claim 1, wherein the at least one scavenger comprises an amine oxide of the formula $(R_1)(R_2)(R_3)N \rightarrow O$ wherein R_1 is an alkyl, alkenyl, alkylarylalkylene, alkenylarylalkylene, ~~alkylaminoalkylene, alkenylaminoalkylene,~~ alkylamidoalkylene, or alkenylamidoalkylene group, wherein each of said alkyl groups contains up to about 24 carbon atoms and may be branched or straight chained and saturated or unsaturated, and wherein said alkylene groups have from about 1 to about 6 carbon atoms; and R_2 and R_3 are independently aliphatic chains having about 1 to about 30 carbon atoms.

7. (Previously presented) The process of Claim 6, wherein the amine oxide is of the formula $(RCONHCH_2CH_2CH_2)(CH_3)_2N \rightarrow O$ wherein R is a radical selected from the group consisting of decyl, cocoyl, lauryl, cetyl and oleyl.

8. (Previously presented) The process of Claim 21, wherein the at least one scavenger is an alkanolamine selected from the group consisting of monoalkanolamines, dialkanolamines and trialkanolamines and mixtures thereof.

9. (Previously presented) The process of Claim 21, wherein the alkanolamine is selected from the group consisting of monoethanolamine, monomethanolamine, monopropanolamine, monobutanolamine, monopentanolamine, monohexanolamine, monoheptanolamine, monooctanolamine, monononanolamine, ethyldiethanolamine, dimethanolamine, methanolethanolamine, diethanolamine, methanolpropanolamine, ethanolpropanolamine, dipropanolamine, methanolbutanolamine, ethanolbutanolamine, propanolbutanolamine, dibutanolamine, dipentanolamine, dihexanolamine, diheptanolamine, dioctanolamine, triethanolamine and tripropanolamine.

10. (Previously presented) The process of Claim 1, wherein the at least one scavenger comprises a polyamine containing at least two amine groups per molecule.

11. (Previously presented) The process of Claim 10, wherein the polyamine is a polyalkylene or aromatic polyamine having from 1 to about 4 primary or secondary amine groups per molecule of the formula $-N(R_8)(R_9)$ wherein each R_8 and R_9 are independently

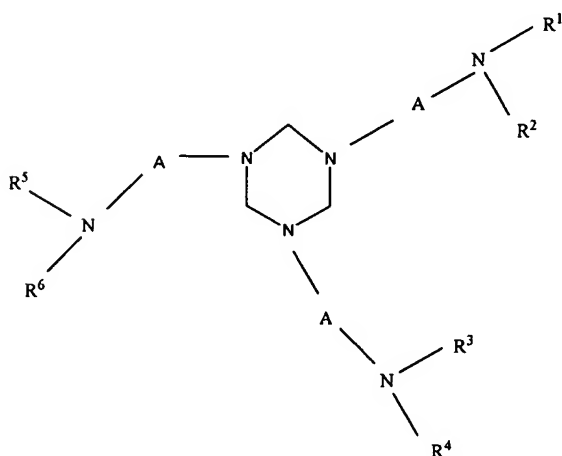
selected from the group consisting of -H and a C₁-C₆ alkyl, wherein each alkylene group contains between from 2 to about 8 carbon atoms.

12. (Original) The process of Claim 10, wherein the polyamine is dialkylene triamine, trialkylene tetraamine or a pentaalkylene hexamine or a mixture thereof.

13. (Original) The process of Claim 10, wherein the polyamine is N, N'-di-sec-butyl-p-phenylenediamine, tris-(2-aminoethylamine), diethylene triamine, trimethylene tetraamine, pentaethylene hexamine, ethylenediamine, propylenediamine, triethylenetetramine, tetraethylenepentamine, tetrabutylene pentamine, hexaethyleneheptamine, hexapentyleneheptamine, heptaethyleneoctamine, octaethylenenonamine, nonaethylenedecamine, decaethyleneundecamine, decahexyleneundecamine, undecaethylenedodecamine, dodecaethylenetridecamine, and tridecaethylenetetradecamine.

14. (Currently amended) A process for scavenging hydrogen sulfide and/or mercaptan contaminants from a hydrocarbon stream, comprising mixing the hydrocarbon stream with a scavenging effective amount of at least one scavenger selected from the group consisting of:

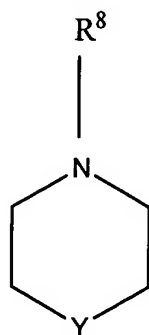
(i.) 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative of the formula:



(I)

wherein each A is independently selected from the formula $-(CHR^7)_x$ wherein x is from 1 to about 6 and each R^1 , R^2 , R^3 , R^4 , R^5 , R^6 and R^7 is independently selected from $-H$ or a C_1 - C_6 alkyl;

(ii.) nitrogen heterocyclic compound of the formula:



(II)

wherein Y is $-N$ or $-O$ and R^8 is an aminoalkyl group containing between 2 to 4 carbon atoms;

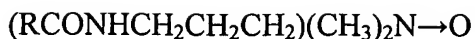
(iii.) amine oxide of the formula $(R_1)(R_2)(R_3)N \rightarrow O$ wherein R_1 is an alkyl, alkenyl, alkylarylalkylene, alkenylarylalkylene, ~~alkylaminoalkylene, —alkenylaminoalkylene,~~ alkylamidoalkylene, or alkenylamidoalkylene group, wherein each of said alkyl groups contains up to about 24 carbon atoms and may be branched or straight chained and saturated or unsaturated, and wherein said alkylene groups have from about 1 to about 6 carbon atoms; and R_2 and R_3 are independently aliphatic chains having about 1 to about 30 carbon atoms; and

(iv.) aliphatic or aromatic polyamine

and thereby scavenging hydrogen sulfide and/or mercaptan contaminants from the hydrocarbon stream.

15. (Previously presented) The process of Claim 14, wherein the at least one scavenger comprises a 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative selected from the group consisting of 1,3,5-tris[3-(dimethylamino)propyl] hexahydro-1,3,5-triazine, 1,3,5-tris[2-(dimethylamino)ethyl] hexahydro-1,3,5-triazine, 1,3,5-tris[3-(diethylamino)propyl] hexahydro-1,3,5-triazine and 1,3,5-tris[2-(diethylamino)ethyl] hexahydro-1,3,5-triazine.

16. (Previously presented) The process of Claim 14, wherein the at least one scavenger comprises at least one amine oxide of the formula:



wherein R is a radical selected from the group consisting of decyl, cocoyl, lauryl, cetyl and oleyl.

17. (Previously presented) The process of Claim 23, wherein the at least one scavenger is an alkanolamine selected from the group consisting of monoethanolamine, monomethanolamine, monopropanolamine, monobutanolamine, monopentanolamine, monohexanolamine, monoheptanolamine, monooctanolamine, monononanolamine, ethyldiethanolamine, dimethanolamine, methanolethanolamine, diethanolamine, methanolpropanolamine, ethanolpropanolamine, dipropanolamine, methanolbutanolamine, ethanolbutanolamine, propanolbutanolamine, dibutanolamine, dipentanolamine, dihexanolamine, diheptanolamine dioctanolamine, triethanolamine and tripropanolamine.

18. (Previously presented) The process of Claim 14, wherein the at least one scavenger comprises a polyamine containing at least two amine groups per molecule.

19. (Original) The process of Claim 18, wherein the polyamine is a polyalkylene or aromatic polyamine having from 1 to about 4 primary or secondary amine groups per molecule.

20. (Previously presented) The process of Claim 14, wherein the at least one scavenger comprises a polyamine selected from the group consisting of N, N'-di-sec-butyl-p-phenylenediamine, tris-(2-aminoethylamine), diethylene triamine, trimethylene tetraamine, pentaethylene hexamine, ethylenediamine, propylenediamine, triethylenetetramine, tetraethylenepentamine, tetrabutylpenentamine, hexaethyleneheptamine, hexapentyleneheptamine, heptaethyleneoctamine, octaethylenenonamine, nonaethylenedecamine, decaethyleneundecamine, decahexyleneundecamine, undecaethylenedodecamine, dodecaethylenetridecamine and tridecaethylenetetradecamine.

21. (Previously presented) A process for scavenging mercaptans from a liquid or gaseous stream which comprises bringing the stream into contact with a scavenging effective

amount of an alkanolamine and thereby scavenging mercaptans from the liquid or gaseous stream.

22. (Previously presented) The process of Claim 21, wherein the liquid stream is selected from the group consisting of liquefied petroleum gas, crude oil, petroleum residual oil and heating oil.

23. (Previously presented) A process for scavenging hydrogen sulfide and/or mercaptans from a liquid stream which comprises bringing the stream into contact with a scavenging effective amount of at least one scavenger selected from the group consisting of a:

- (i.) 1,3,5-trisalkanylamino hexahydro-1,3,5-triazine derivative;
- (ii.) nitrogen heterocyclic compound of the formula:



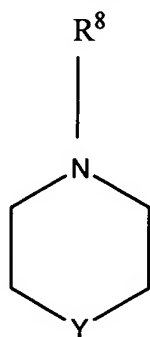
wherein Y is -N or -O and R⁸ is an aminoalkyl group containing between 2 to 4 carbon atoms;

- (iii.) amine oxide;
- (iv.) alkanolamine; or
- (v.) aliphatic or aromatic polyamine

and thereby scavenging hydrogen sulfide and/or mercaptans from the liquid or gaseous stream wherein the scavenger is added neat or diluted with a solvent selected from the group consisting of alcohols, esters, benzene, benzene derivatives, acetone, kerosene and aromatic naphtha.

24. (Cancelled.)

25. (Previously presented.) The process of Claim 1, wherein the at least one scavenger is a nitrogen heterocyclic compound of the formula:



(I)